BRUHAT BANGALORE MAHANAGARA PALIKE

FIRST AND FINAL BILL

MEASUREMENT SHEET

Name of work: Improvements to Roads and Drains at Singapura Paradise and Surrounding areas in Ward No. 15 (Kuvempunagara).

Estimated Cost : Rs. 40.00 Lakhs

Head of Account : P3726 Zonal Public Works - POW Works

Job Code: 015-23-000010

Name of Agency: Sri.Nagoor Lokanadha Reddy, Flat No. 102, 1st Floor, No. 2, MSNR Enclave, 2nd Cros, Manorayana Palya, RT Nagar Post, Bangalore - 560 032.

Work order No: BBMP/EE/BTP/WO/133/2022-23 D: 02-03-2023.

	Measurements Recarded on :	04.05.2023						
Sl. No.	Description of Item	Measurments				Qty	Unit	Rate	Amount
		No.s	L	B	D				
1	**Earth work excavation by manual means for drains,**canals, waste weir, draft, approach channels, key trenches, foundation of bridges and such simillar works in all kinds of soils , as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter, excavated surface leveled and sides neatly dressed disposing off the excavated stuff or sorting & stacking the selected stuff for reuse in a radius of 50 m and lift upto 1.5 m including cost. **In all kinds of soils Depth upto 1.5 m**								
	Qty as per Premeasurement Recorded vide E-Bill Page No. 01 to 02 is =					**450.00**	Cum	161.00	**72450.00**
2	Providing and laying in position plain cement concrete for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork shall be paid separately) Mix 1:4:8(M5) Using 40 mm nominal size graded crushed coarse aggregates								
	Qty as per Premeasurement Recorded vide E-Bill Page No. 03 to 04 is =					**67.20**	Cum	4826.00	**324307.00**
3	Providing and laying in position Reinforced cement concrete for all Sub structures of building, Irrigation works, Sub structure works of bridges, Drain works & other parallel works from 0.50m to 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necesary, including all lead & lifts, cost of all materials of quality, confirming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork to be paid separately) M20 Design Mix Using 20 mm nominal size graded crushed coarse aggregates								
	Qty as per Premeasurement Recorded vide E-Bill Page No. 05 to 07 is =					**144.70**	Cum	5411.00	**782972.00**
4	Supplying, Fitting and Placing un-coated TMT bar Reinforcement in sub-structure complete as per Drawing and Technical Specifications.								
	Qty as per Premeasurement Recorded vide E-Bill Page No. 08 is =					**8.39**	Tonnes	80095.00	**671997.00**

Assistant Executive Engineer
Vidyaranyapura Sub Division
B.B.M.P, Bangalore - 97

Sl. No	Description of Item	Measurments				Qty	Unit	Rate	Amount
		No.s	L	B	D				
5	Providing and laying in position plain cement concrete for levelling course for all works in foundation. The granite / trap / basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork shall be paid separately Mix 1:3:6 (M10) Using 20 mm nominal size graded crushed coarse aggregate								
	Ramp for Culvert								
	Singapura Paradise 3rd Main Middle	2	7.00	1.00	0.15	2.10			
	1st Cross Enterance to Wards S/S	2	6.25	1.00	0.15	1.88			
	3rd Cross Enterance to Wards N/S	2	6.75	1.00	0.15	2.03			
		Total Qty =				**6.00**			
		Qty Ltd Approved Qty =				**6.00**	Sqm	4977.00	**29862.00**

Assistant Engineer
Ward No. 15

N. Lakshmana Reddy

Assistant Executive Engineer
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Sl. No	Description of Item	Measurments No.s	L	B	D	Qty	Unit	Rate	Amount
	Measurements Recarded on : 04-05-2023								
6	Providing and fixing RCC Precast cover slab of 100mm thick for drain in cement concrete M20 using graded granite jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the directions of Engineer in-charge of the Work.								
	Precast Covering Slab for RCC Drain								
	Singapura Paradise								
	From Main Road to 1st Cross								
	N/S	1	15.00	0.90		13.50			
		1	10.60	0.90		9.54			
	From 1st Cross to 2nd Cross								
	N/S	1	15.00	0.90		13.50			
		1	10.80	0.90		9.72			
	From 2nd Cross to 3rd Cross								
	N/S	1	15.00	0.90		13.50			
		1	11.60	0.90		10.44			
	From 3rd Cross to end								
	N/S	1	13.00	0.90		11.70			
	From 1st Main Road to 1st Cross								
	S/S	1	13.50	0.90		12.15			
		1	9.00	0.90		8.10			
	From 1st Cross to Ground								
		1	15.00	0.90		13.50			
		1	15.00	0.90		13.50			
		1	8.10	0.90		7.29			
	1st Cross to Wards S/S								
	W/S	1	14.60	0.90		13.14			
	Main Road								
	From 3rd Main to SWD	1	15.00	0.90		13.50			
		1	15.00	0.90		13.50			
		1	15.00	0.90		13.50			
		1	6.00	0.90		5.40			
	1st Cross to Wards N/S SWD								
	From 3rd Main Road to SWD								
	W/S	1	16.00	0.90		14.40			
		1	4.80	0.90		4.32			
		1	7.00	0.90		6.30			
		1	15.00	0.90		13.50			
		1	8.30	0.90		7.47			
		1	15.00	0.90		13.50			
		1	3.30	0.90		2.97			
	1st Cross to Wards N/S SWD								
	From SWD to 3rd Main Road								
	E/S	1	9.70	0.90		8.73			
		1	10.20	0.90		9.18			
		1	8.20	0.90		7.38			
		1	15.00	0.90		13.50			
		1	15.80	0.90		14.22			
	2nd Cross to Wards N/S SWD								
	From 3rd Main Road to SWD	1	0.60	0.90		0.54			
	W/S	1	3.10	0.90		2.79			
		1	15.00	0.90		13.50			
		1	2.90	0.90		2.61			
		1	0.60	0.90		0.54			
		1	6.60	0.90		5.94			
	2nd Cross to Wards N/S SWD								

Executive Engineer, (BTP), BBMP.

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AEE (VRP) SD

Sl. No	Description of Item	Measurments No.s	L	B	D	Qty	Unit	Rate	Amount
	From SWD to 3rd Main Road								
	E/S	1	6.30	0.90		5.67			
		1	6.20	0.90		5.58			
		1	15.00	0.90		13.50			
		1	15.00	0.90		13.50			
		1	3.50	0.90		3.15			
			Total Qty =			**378.27**			
			Qty Ltd Approved Qty =			**378.00**	Sqm	1636.00	**618408.00**

Executive Engineer, (BTP), BBMP.

Assistant Engineer
Ward No. 15

Assistant Executive Engineer
Vidyaranyapura Sub-Division

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Sl. No	Description of Item	Measurments No.s	L	B	D	Qty	Unit	Rate	Amount
	Measurements Recarded on :	04-05-2023							
7	Providing & fixing RCC Precast Cover slab of 230mm thick for drain in cement concrete M20 using graded granite jelly 200mm & down size with steel reinforcement including formwork, lift charges, curing & concrete finished surface both sides etc,. And as per drawing & the direction of Engineer-in-charge. **(Approved Data Rate)**								
	Culvert Deck Slab								
	Singapura Paradise 3rd Main Middle	1	7.00	1.50		10.50			
	1st Cross Enterance to Wards S/S	1	6.25	1.20		7.50			
	3rd Cross Enterance to Wards N/S	1	6.75	1.20		8.10			
			Total Qty =			**26.10**			
			Qty Ltd Approved Qty =			**24.00**	Sqm	3979.00	**95496.00**
8	Loading and Unloading of Stone Boulder / Stone aggregates / Sand / Kankar / Moorum.								
	Same as Qty Vide Item No.1					407.25			
		Total Qty =				**423.00**	Cum	64.00	**27072.00**
9	Cost of Haulage Excluding Loading and Unloading, Case-1 : Surfaced Road A Taking output 10 t load and lead 10 km = 100 t.km								
	Same as Qty Vide Item No.8					423.00	Cum		
	Density of Sand/Debris i.e 1.28 T	423.00			1.28	541.44	t.kms		
			Total Qty =			**541.44**	t.kms	91.00	**49271.00**
								Sub Total	**2671835.00**
								Add GST 18%	**480930.00**
								TOTAL	**3152765.00**

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